

## Refine Search

### Search Results -

Terms	Documents
L2 and (PVB)	8

**Database:** US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L3	▼	Refine Search
▼	▼	
Recall Text	Clear	Interrupt

### Search History

**DATE:** Wednesday, November 28, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

**Set Name** Query  
side by side

**Hit Count** Set Name  
result set

*DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

L3	L2 and (PVB)	8	L3
L2	Fusabond	352	L2
L1	(modifying near agent) and (Fusabond near P)	2	L1

END OF SEARCH HISTORY

## Hit List

First Hit	Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS					

### Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20060079621 A1

L3: Entry 1 of 8

File: PGPB

Apr 13, 2006

PGPUB-DOCUMENT-NUMBER: 20060079621

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060079621 A1

TITLE: Toughened polyacetal compositions and blends having low surface gloss

PUBLICATION-DATE: April 13, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lee; Win-Chung	Parkersburg	WV	US
Eichstadt; Francis J.	Parkersburg	WV	US
Moraczewski; Jerome P.	Kennett Square	PA	US

US-CL-CURRENT: 524/442; 524/445, 524/494

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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2. Document ID: US 20060036036 A1

L3: Entry 2 of 8

File: PGPB

Feb 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060036036

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060036036 A1

TITLE: Thermoplastic elastomers from crosslinked polyvinylbutyral

PUBLICATION-DATE: February 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hofmann; George Henry	WILMINGTON	DE	US

US-CL-CURRENT: 525/155; 524/272, 524/568, 525/240

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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3. Document ID: US 20050027072 A1

L3: Entry 3 of 8

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050027072  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050027072 A1

TITLE: Process for conversion of polyvinyl butyral (PVB) scrap into processable pellets

PUBLICATION-DATE: February 3, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hofmann, George Henry	Wilmington	DE	US

US-CL-CURRENT: 525/69

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KINIC</a>	<a href="#">Drawn D.</a>
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 4. Document ID: US 20040266931 A1

L3: Entry 4 of 8

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040266931  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040266931 A1

TITLE: Polyamide and polyvinylbutyral compositions and blends comprising mineral filler and articles made therefrom

PUBLICATION-DATE: December 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lee, Win-Chung	Parkersburg	WV	US
Lima, Avelino F.	North Hills	WV	US
Wang, I-Chung W.	Vienna	WV	US

US-CL-CURRENT: 524/435; 524/445, 524/451, 524/502

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KINIC</a>	<a href="#">Drawn D.</a>
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 5. Document ID: US 20040147675 A1

L3: Entry 5 of 8

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040147675  
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040147675 A1

TITLE: Thermoplastic elastomers from crosslinked polyvinylbutyral

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hofmann, George H.	Wilmington		DE

US-CL-CURRENT: 525/165; 525/178, 525/185, 525/192, 525/240, 525/241, 525/461

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RMD](#) | [Drawn D.](#)

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6. Document ID: US 20040087706 A1

L3: Entry 6 of 8

File: PGPB

May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040087706

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040087706 A1

TITLE: Toughened, glass filled polyamide compositions and blends having improved stiffness, and articles made therefrom

PUBLICATION-DATE: May 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fish, Robert B. JR.	Parkersburg	WV	US
Lee, Win-Chung	Parkersburg	WV	US

US-CL-CURRENT: 524/494

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RMD](#) | [Drawn D.](#)

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7. Document ID: US 20030212203 A1

L3: Entry 7 of 8

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030212203

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030212203 A1

TITLE: Process for conversion of polyvinyl butyral (pvb) scrap into processable pellets

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Hofmann, George Henry

Wilmington

DE

US

US-CL-CURRENT: 525/63; 525/64, 525/69

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#) 8. Document ID: US 7138454 B2

L3: Entry 8 of 8

File: USPT

Nov 21, 2006

US-PAT-NO: 7138454

DOCUMENT-IDENTIFIER: US 7138454 B2

TITLE: Toughened, glass filled polyamide compositions and blends having improved stiffness, and articles made therefrom

DATE-ISSUED: November 21, 2006

## PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040087706 A1	May 6, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fish; Robert B.	Parkersburg	WV		US
Lee; Win-Chung	Parkersburg	WV		US

US-CL-CURRENT: 524/514; 524/512

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D.](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms	Documents
L2 and (PVB)	8

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Refine Search

### Search Results -

Terms	Documents
L21 and hydroxyl	28

**Database:**

- US Pre-Grant Publication Full-Text Database
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**Search:**

### Search History

DATE: Wednesday, November 28, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

<u>Set</u>	<u>Query</u>	<u>Hit</u>	<u>Set</u>
<u>Name</u>		<u>Count</u>	<u>Name</u>
side by side			result set
DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
<u>L22</u>	L21 and hydroxyl	28	<u>L22</u>
<u>L21</u>	modified near PVB	44	<u>L21</u>
<u>L20</u>	modified PVB	1602306	<u>L20</u>
<u>L19</u>	L18 and (polyethylene or polypropylene or polystyrene or polyamide or polyester or polyacrylates or PVC)	39	<u>L19</u>
<u>L18</u>	L17 and ((polycarboxylic near acid) or diisocyanate)	41	<u>L18</u>
<u>L17</u>	L16 and crosslink\$3	97	<u>L17</u>
<u>L16</u>	L15 and (hydroxyl near group)	189	<u>L16</u>
<u>L15</u>	L14 and modified	507	<u>L15</u>
<u>L14</u>	L1 and butvar	1154	<u>L14</u>
<u>L13</u>	L1 and (anhydride near function\$2 near polyvinylbutyral)	0	<u>L13</u>
<u>L12</u>	hydroxyl near terminated near polyvinylbutyral	0	<u>L12</u>
<u>L11</u>	hydroxyl near modifying near polyvinylbutyral	0	<u>L11</u>

<u>L10</u>	hydroxyl-modified near polyvinylbutyral	0	<u>L10</u>
<u>L9</u>	L1 and (hydroxyl near modified)	68	<u>L9</u>
<u>L8</u>	L1 and (hydroxyl-reactive near group)	8	<u>L8</u>
<u>L7</u>	L1 and (Fusabond near P)	4	<u>L7</u>
<u>L6</u>	L4 and (Fusabond near P)	4	<u>L6</u>
<u>L5</u>	L4 and (FusabondP)	0	<u>L5</u>
<u>L4</u>	L1 and (Fusabond/(r)P)	22515	<u>L4</u>
<u>L3</u>	L1 and (Fusabond P)	18387	<u>L3</u>
<u>L2</u>	L1 and (Fusabond)	20	<u>L2</u>
<u>L1</u>	polyvinylbutyral or (polyvinyl near butyral) or (polyvinyl-butyral) or (PVB)	33379	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

First Hit	Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS					

### Search Results - Record(s) 1 through 28 of 28 returned.

1. Document ID: US 20060173105 A1

L22: Entry 1 of 28

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060173105

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060173105 A1

TITLE: Composite comprising cellulose and thermoplastic polymer

PUBLICATION-DATE: August 3, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Griffin; Elizabeth R.	Newark	DE	US
Hofmann; George Henry	Wilmington	DE	US

US-CL-CURRENT: 524/35

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMD	Drawn D.
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2. Document ID: US 20060036036 A1

L22: Entry 2 of 28

File: PGPB

Feb 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060036036

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060036036 A1

TITLE: Thermoplastic elastomers from crosslinked polyvinylbutyral

PUBLICATION-DATE: February 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hofmann; George Henry	WILMINGTON	DE	US

US-CL-CURRENT: 525/155; 524/272, 524/568, 525/240

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMD	Drawn D.
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## Γ 3. Document ID: US 20060008648 A1

L22: Entry 3 of 28

File: PGPB

Jan 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060008648

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060008648 A1

TITLE: Polyvinylbutyral interlayers having superior acoustical properties and method of preparing same

PUBLICATION-DATE: January 12, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bennison; StephenJ	Wilmington	DE	US
Rymer; DonaldL	Little Hocking	OH	US

US-CL-CURRENT: 428/411.1; 428/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Oracle DB
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## Γ 4. Document ID: US 20050027072 A1

L22: Entry 4 of 28

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050027072

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050027072 A1

TITLE: Process for conversion of polyvinyl butyral (PVB) scrap into processable pellets

PUBLICATION-DATE: February 3, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hofmann, George Henry	Wilmington	DE	US

US-CL-CURRENT: 525/69

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Oracle DB
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## Γ 5. Document ID: US 20040147675 A1

L22: Entry 5 of 28

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040147675

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040147675 A1

TITLE: Thermoplastic elastomers from crosslinked polyvinylbutyral

PUBLICATION-DATE: July 29, 2004

INVENTOR- INFORMATION:

NAME	CITY	STATE	COUNTRY
Hofmann, George H.	Wilmington		DE

US-CL-CURRENT: 525/165; 525/178, 525/185, 525/192, 525/240, 525/241, 525/461

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [RMD](#) [Drawn D.](#)

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6. Document ID: US 20030212203 A1

L22: Entry 6 of 28

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030212203

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030212203 A1

TITLE: Process for conversion of polyvinyl butyral (pvb) scrap into processable pellets

PUBLICATION-DATE: November 13, 2003

INVENTOR- INFORMATION:

NAME	CITY	STATE	COUNTRY
Hofmann, George Henry	Wilmington	DE	US

US-CL-CURRENT: 525/63; 525/64, 525/69

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [RMD](#) [Drawn D.](#)

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7. Document ID: US 20030111159 A1

L22: Entry 7 of 28

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030111159

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030111159 A1

TITLE: Film-reinforced glasses

PUBLICATION-DATE: June 19, 2003

INVENTOR- INFORMATION:

NAME	CITY	STATE	COUNTRY
Hashimoto, Masao	Kanagawa		JP
Okada, Tokuo	Kanagawa		JP

US-CL-CURRENT: 156/99; 156/106

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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[ 8. Document ID: US 6433079 B1

L22: Entry 8 of 28

File: USPT

Aug 13, 2002

US-PAT-NO: 6433079

DOCUMENT-IDENTIFIER: US 6433079 B1

TITLE: Aqueous anticorrosion primers based on polyvinylbutyral

DATE-ISSUED: August 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gerlitz; Martin	Graz			AT
Friedl; Maximilian	Gratkorn			AT
Fischer; Thomas	Graz			AT
Supper; Ernst	Graz			AT
Krassnitzer; Manfred	Graz			AT

US-CL-CURRENT: 525/56; 427/385.5, 427/388.4, 524/503, 525/57, 525/58, 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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[ 9. Document ID: US 5972552 A

L22: Entry 9 of 28

File: USPT

Oct 26, 1999

US-PAT-NO: 5972552

DOCUMENT-IDENTIFIER: US 5972552 A

TITLE: Photoconductor comprising a complex between metal oxide phthalocyanine compounds and hydroxy or amine compounds

DATE-ISSUED: October 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ganapathiappan; Sivapackia	Mountain View	CA		
Nguyen; Khe C.	Los Altos	CA		

US-CL-CURRENT: 430/96; 430/133

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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## Γ 10. Document ID: US 5750300 A

L22: Entry 10 of 28

File: USPT

May 12, 1998

US-PAT-NO: 5750300

DOCUMENT-IDENTIFIER: US 5750300 A

TITLE: Photoconductor comprising a complex between metal oxide phthalocyanine compounds and hydroxy compounds

DATE-ISSUED: May 12, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nguyen; Khe C.	Los Altos	CA		

US-CL-CURRENT: 430/78; 430/134, 430/56, 430/96

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KIND	Drawn
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## Γ 11. Document ID: US 5656365 A

L22: Entry 11 of 28

File: USPT

Aug 12, 1997

US-PAT-NO: 5656365

DOCUMENT-IDENTIFIER: US 5656365 A

TITLE: Intermediate fire-resistant film and its use in a laminated glass

DATE-ISSUED: August 12, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dages; Daniel	les Mureaux			FR

US-CL-CURRENT: 428/221; 428/524, 525/398, 525/399, 525/401, 525/472, 525/474,  
525/539, 525/540

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KIND	Drawn
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## Γ 12. Document ID: US 5631315 A

L22: Entry 12 of 28

File: USPT

May 20, 1997

US-PAT-NO: 5631315

DOCUMENT-IDENTIFIER: US 5631315 A

\*\* See image for Certificate of Correction \*\*

TITLE: Plasticized polyvinyl butyral sheet containing epoxy resin

DATE-ISSUED: May 20, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
D'Errico; John J.	Glastonbury	CT		

US-CL-CURRENT: 524/314; 428/437, 523/455, 525/58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Image	Text	Claims	HTML	Print
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## 13. Document ID: US 5529849 A

L22: Entry 13 of 28

File: USPT

Jun 25, 1996

US-PAT-NO: 5529849

DOCUMENT-IDENTIFIER: US 5529849 A

TITLE: Plasticized polyvinyl butyral sheet containing epoxy resin

DATE-ISSUED: June 25, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
D'Errico; John J.	Glastonbury	CT		

US-CL-CURRENT: 428/415; 359/359, 359/360, 359/580, 428/426, 428/432, 428/433,  
428/436, 428/437, 428/469, 428/699, 428/701, 428/702, 428/913

Full	Title	Citation	Front	Review	Classification	Date	Reference	Image	Text	Claims	HTML	Print
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## 14. Document ID: US 5529848 A

L22: Entry 14 of 28

File: USPT

Jun 25, 1996

US-PAT-NO: 5529848

DOCUMENT-IDENTIFIER: US 5529848 A

TITLE: Plasticized polyvinyl butyral sheet containing epoxy resin

DATE-ISSUED: June 25, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
D'Errico; John J.	Glastonbury	CT		

US-CL-CURRENT: 428/413; 359/359, 359/360, 359/580, 428/426, 428/432, 428/433,  
428/436, 428/437, 428/469, 428/699, 428/701, 428/702, 428/913

Full	Title	Citation	Front	Review	Classification	Date	Reference	Image	Text	Claims	HTML	Print
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## 15. Document ID: US 5137954 A

L22: Entry 15 of 28

File: USPT

Aug 11, 1992

US-PAT-NO: 5137954

DOCUMENT-IDENTIFIER: US 5137954 A

TITLE: Polyvinyl butyral sheet

DATE-ISSUED: August 11, 1992

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DasGupta; Arijit M.	Belchertown	MA		
David; Donald J.	Amherst	MA		
Tetreault; Roland J.	Springfield	MA		

US-CL-CURRENT: 524/284; 428/98, 524/297, 524/557, 525/60, 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	RDNC	Drawn
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 16. Document ID: US 5130370 A

L22: Entry 16 of 28

File: USPT

Jul 14, 1992

US-PAT-NO: 5130370

DOCUMENT-IDENTIFIER: US 5130370 A

TITLE: Molding compositions of polyvinylbutyral blend

DATE-ISSUED: July 14, 1992

## INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Udipi; Kishore	Longmeadow	MA		
Stebbins; Lionel R.	Belchertown	MA		

US-CL-CURRENT: 525/57; 524/443, 524/504, 524/507, 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	RDNC	Drawn
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 17. Document ID: US 5030688 A

L22: Entry 17 of 28

File: USPT

Jul 9, 1991

US-PAT-NO: 5030688

DOCUMENT-IDENTIFIER: US 5030688 A

\*\* See image for Certificate of Correction \*\*

TITLE: Ionomeric polyvinyl butyral

DATE-ISSUED: July 9, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misra; Ashok	New Delhi			IN
David; Donald J.	Amherst	MA		
DasGupta; Arijit M.	Holyoke	MA		

US-CL-CURRENT: 525/61

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Text](#) | [Claims](#) | [RMD](#) | [Drawn](#)

## Γ 18. Document ID: US 4999253 A

L22: Entry 18 of 28

File: USPT

Mar 12, 1991

US-PAT-NO: 4999253

DOCUMENT-IDENTIFIER: US 4999253 A

TITLE: Polyvinyl butyral sheet

DATE-ISSUED: March 12, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misra; Ashok	New Delhi			IN
David; Donald J.	Amherst	MA		
DasGupta; Arijit M.	Holyoke	MA		

US-CL-CURRENT: 428/515; 525/61

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Text](#) | [Claims](#) | [RMD](#) | [Drawn](#)

## Γ 19. Document ID: US 4999078 A

L22: Entry 19 of 28

File: USPT

Mar 12, 1991

US-PAT-NO: 4999078

DOCUMENT-IDENTIFIER: US 4999078 A

\*\* See image for Certificate of Correction \*\*

TITLE: Reducing blocking and increasing flow of plasticized polyvinyl butyral sheet

DATE-ISSUED: March 12, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misra; Ashok	New Delhi			IN
David; Donald J.	Amherst	MA		
DasGupta; Arijit M.	Holyoke	MA		

US-CL-CURRENT: 156/327; 264/331.22, 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KOMC	Drawn
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Γ 20. Document ID: US 4968745 A

L22: Entry 20 of 28

File: USPT

Nov 6, 1990

US-PAT-NO: 4968745

DOCUMENT-IDENTIFIER: US 4968745 A

TITLE: Method of producing ionomeric polyvinyl butyral

DATE-ISSUED: November 6, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misra; Ashok	New Delhi			IN
David; Donald J.	Amherst	MA		
DasGupta; Arijit M.	Holyoke	MA		

US-CL-CURRENT: 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KOMC	Drawn
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Γ 21. Document ID: US 4968744 A

L22: Entry 21 of 28

File: USPT

Nov 6, 1990

US-PAT-NO: 4968744

DOCUMENT-IDENTIFIER: US 4968744 A

TITLE: Polyvinyl butyral polyblend

DATE-ISSUED: November 6, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misra; Ashok	New Delhi			IN
David; Donald J.	Amherst	MA		
DasGupta; Arijit M.	Holyoke	MA		

US-CL-CURRENT: 525/57; 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KOMC	Drawn
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Γ 22. Document ID: US 4968743 A

L22: Entry 22 of 28

File: USPT

Nov 6, 1990

US-PAT-NO: 4968743  
DOCUMENT-IDENTIFIER: US 4968743 A

TITLE: Process for preparing polyvinyl butyral sheet

DATE-ISSUED: November 6, 1990

**INVENTOR - INFORMATION :**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misra; Ashok	New Delhi			IN
David; Donald J.	Amherst	MA		
DasGupta; Arijit M.	Holyoke	MA		

US-CL-CURRENT: 525/57; 525/61

Full Title Citation Front Revision Classification Date Reference Description Claims IOMC Drawn By

23. Document ID: US 4902464 A

L22: Entry 23 of 28

File: USPT

Feb 20, 1990

US-PAT-NO: 4902464

DOCUMENT-IDENTIFIER: US 4902464 A

TITLE: Cross-linked polyvinyl butyral

DATE-ISSUED: February 20, 1990

**INVENTOR - INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cartier; George E.	Springfield	MA		
Farmer; Peter H.	Longmeadow	MA		

US-CL-CURRENT: 264/211.24; 264/236, 264/331.22, 264/347, 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Notes	Links	Claims	KMPC	Drawn
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Γ 24. Document ID: US 4874814 A

L22: Entry 24 of 28

File: USPT

Oct 17, 1989

US-PAT-NO: 4874814

DOCUMENT-IDENTIFIER: US 4874814 A

TITLE: Cross-linked polyvinyl butyral

DATE-ISSUED: October 17, 1989

**INVENTOR - INFORMATION :**

Cartier; George E.	Springfield	MA
Farmer; Peter H.	Longmeadow	MA

US-CL-CURRENT: 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Text	Claims	INNOC	Drawn
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[ 25. Document ID: US 4814529 A

L22: Entry 25 of 28

File: USPT

Mar 21, 1989

US-PAT-NO: 4814529

DOCUMENT-IDENTIFIER: US 4814529 A

TITLE: Cross-linked polyvinyl butyral

DATE-ISSUED: March 21, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cartier; George E.	Springfield	MA	01118	
Farmer; Peter H.	Longmeadow	MA	01106	

US-CL-CURRENT: 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Text	Claims	INNOC	Drawn
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[ 26. Document ID: US 4654179 A

L22: Entry 26 of 28

File: USPT

Mar 31, 1987

US-PAT-NO: 4654179

DOCUMENT-IDENTIFIER: US 4654179 A

TITLE: Polyvinyl butyral sheet roughness control

DATE-ISSUED: March 31, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cartier; George E.	Springfield	MA		
Farmer; Peter H.	Longmeadow	MA		

US-CL-CURRENT: 264/176.1; 264/211, 264/216, 264/331.22, 425/224, 525/61

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Text	Claims	INNOC	Drawn
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[ 27. Document ID: JP 09105679 A

L22: Entry 27 of 28

File: JPAB

Apr 22, 1997

PUB-NO: JP409105679A

DOCUMENT-IDENTIFIER: JP 09105679 A

TITLE: POSITIVE RESISTANCE-TEMPERATURE CHARACTERISTIC RESIN COMPOSITION

PUBN-DATE: April 22, 1997

## INVENTOR-INFORMATION:

NAME	COUNTRY
KIMURA, KOJI	
YUGAWA, KATSUMI	
HARADA, ATSUSHI	
NAGAKUBO, HIROSHI	

INT-CL (IPC): G01K 7/16; C08F 8/00; C08K 3/00; C08L 29/14; C08L 101/00; H01C 7/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	EDOC	Drawn
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## 28. Document ID: US 20050027072 A1

L22: Entry 28 of 28

File: DWPI

Feb 3, 2005

DERWENT-ACC-NO: 2005-151293

DERWENT-WEEK: 200516

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TITLE: Pellet composition useful for blending with other polymers for commercial use e.g. windshield for automobiles and window glass in homes comprises chemically modified polyvinylbutyral

INVENTOR: HOFMANN, G H

PRIORITY-DATA: 2004US-0876330 (June 24, 2004), 2003US-0333993 (January 24, 2003)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20050027072 A1</u>	February 3, 2005		011	C08G063/48

INT-CL (IPC): C08G 63/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	EDOC	Drawn
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28